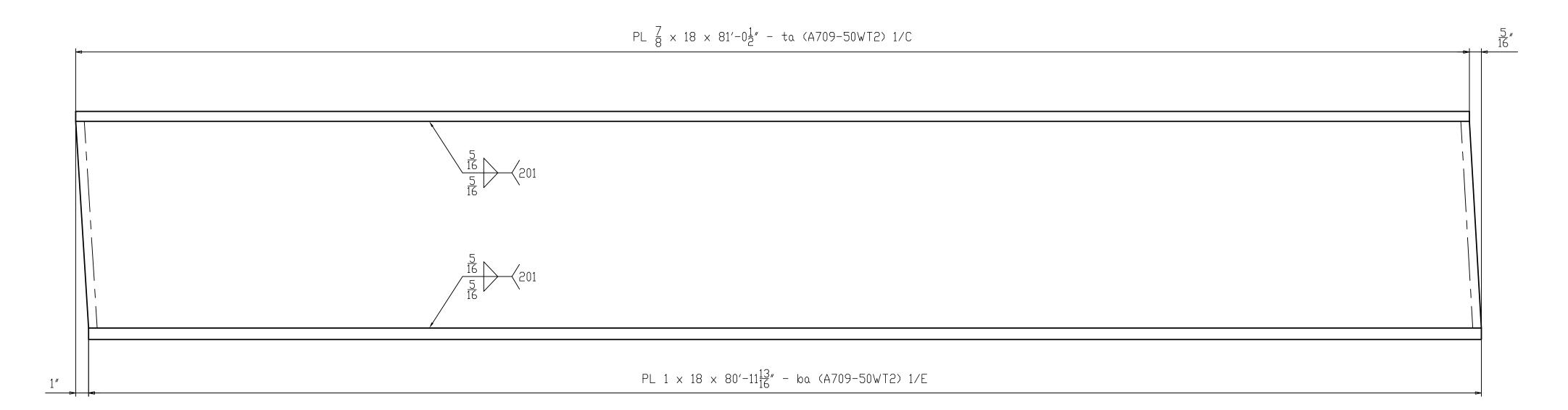


CAMBER DIAGRAM FOR 1G1A, 2G2A, 3G3A, 4G4A, 5G5A, 6G6A



FLANGE DIAGRAM FOR 1G1A, 2G2A, 3G3A, 4G4A, 5G5A, 6G6A

NOTES:

1. FOR GENERAL NOTES SEE SHEET GN1. 2. T2 - DENOTES MATERIAL SUBJECT TO CHARPY V-NOTCH TEST FOR ZONE 2

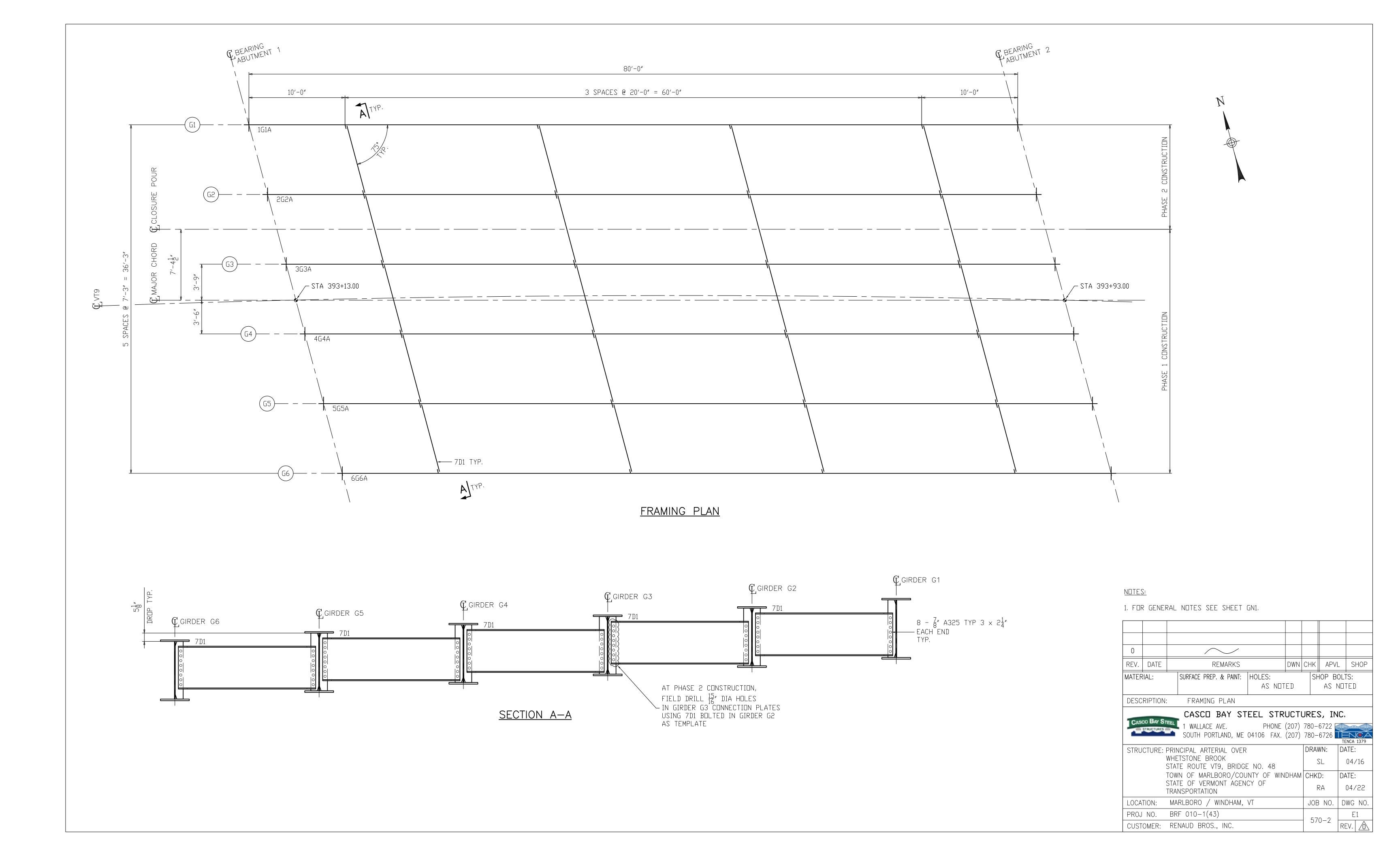
0							
REV.	DATE	REMARKS	REMARKS				
MATERIAL: XXXX		SURFACE PREP. & PAINT:	HOLES: AS NE	ITED		SHOP BOL AS NO	
DESC	RIPTION:	CAMBER & FLANGE	DIAGRAM	S	•		

CASCO BAY STEEL 1 W SOL

CASCO BAY STEEL STRUCTURES, INC.

1 WALLACE AVE. PHONE (207) 780-6722
SOUTH PORTLAND, ME 04106 FAX. (207) 780-6726

	SOUTH PORTLAND, ME 04106 FAX. (207)	780-6726	
			TENCA 1379
STRUCTURE:	PRINCIPAL ARTERIAL OVER	DRAWN:	DATE:
	WHETSTONE BROOK STATE ROUTE VT9, BRIDGE NO. 48	SL	04/17
	TOWN OF MARLBORO/COUNTY OF WINDHAM	CHKD:	DATE:
	STATE OF VERMONT AGENCY OF TRANSPORTATION	RA	04/22
LOCATION:	MARLBORO / WINDHAM, VT	JOB NO.	DWG NO.
PROJ NO.	BRF 010-1(43)	570-2	C1
CUSTOMER:	RENAUD BROS., INC.	370-2	REV.



AE		SHIP		RILI	OF MATE		JOB NO.	DRAWING NO.		REV.	
INI	- 0	ЭПІГ		DILL		1 \ 17 \ 1	_	570-2	FB1		
PAGE	LIZE	MARK	β	MARK	MATERIAL	FT	INGTH INCHES	REMARKS	WT PROCUE		
			320		A325 TYP 3 7/8ø		2 1/4	1FL DTIS WASHER			

		FIELD E	BOLT LIS	ST		A325 TYPE 3 BOLTS					OLTS		
LINE	NO REQ'D	BOLT DIAM.	BOLT LEN.	BOLTS /CONN.	NO OF /CONN.	GRIP*	THIC	CK. O	F PCS	s. cc	NNECTED	WASH CODE	PIECES CONNECTED AND REMARKS
1	320	<u>7</u> "ø	2 1 "	8	40	<u>15</u> " 16	<u>7</u> 16	<u>1</u>				1	DIAPHRAGM TO GIRDER CONNECTION PLATE
* GF	RIP LENG	HICKNESS	· ·							1: 1 HARD DTI'S/LOAD INDICATOR FLAT WASHER 2: 2 HARD DTI'S/LOAD INDICATOR FLAT WASHERS			

0										
REV.	DATE		REMARKS				CHK	APVL	SHOP	
MATERIAL:		1	SURFACE PREP. & PAINT:	HOLES: AS	NDT	ED	SH	SHOP BOLTS: AS NOTED		
DESC	RIPTION:	•	FIELD BOLTS LIS	Τ						
	•									

CASCO BAY STEEL

CASCO BAY STEEL STRUCTURES, INC.

1 WALLACE AVE. PHONE (207) 780-6722

SOUTH PORTLAND ME 04106 FAX (207) 780-6726

	SOUTH PORTLAND, ME 04106 FAX. (20	/) /80-6/26 🛮	<u>i E</u> NŒA
L	·	<u> </u>	TENCA 1379
	STRUCTURE: PRINCIPAL ARTERIAL OVER	DRAWN:	DATE:
	WHETSTONE BROOK STATE ROUTE VT9, BRIDGE NO. 48	SL	04/17
	TOWN OF MARLBORO/COUNTY OF WINDHA	M CHKD:	DATE:
	STATE OF VERMONT AGENCY OF TRANSPORTATION	RA	04/22
	LOCATION: MARLBORO / WINDHAM, VT	JOB NO.	DWG NO.
	PROJ NO. BRF 010-1(43)	570-2	FB1
	CUSTOMER: RENAUD BROS., INC.	3/0-2	REV.

WORK THIS DRAWING WITH E1

GENERAL NOTES

CONSTRUCTION SPECIFICATIONS

1). ALL MATERIAL AND CONSTRUCTION SHALL CONFORM TO STATE OF VERMONT, AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION, DATED 2011, AND ITS LATEST REVISIONS, AND THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (A.A.S.H.T.O.) STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, SIXTEENTH EDITION, AND ITS LATEST REVISIONS.

MATERIEL SPECIFICATIONS

- 1). UNLESS NOTED, ALL NEW STRUCTURAL STEEL CONFORM TO AASHTO M270 GRADE 50W (ASTM A709-50W).
- 2). MATERIAL NOTED "CVN" ON DETAIL DRAWINGS SHALL BE CHARPY V-NOTCH TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF VERMONT STANDARD SPECIFICATIONS (SUBSECTION 714.01).
- 3). HIGH STRENGTH BOLTS: AASHTO M164 (ASTM A325) TYPE 3, 7/8" DIA. IN 15/16" DIAMETER HOLES.

FABRICATION

- 1). BOLT HOLES SHALL BE FABRICATED TO THE REQUIREMENTS OF THE 2012 AASHTO LRFD BRIDGE CONSTRUCTION SPECIFICATIONS, SECTION 11.4.8, EXCEPT THAT HOLES SHALL NOT BE PUNCHED FULL SIZE.
- 2), STUDS ARE FURNISHED AND FIELD INSTALLED BY OTHERS.
- 3), IDENTIFICATION MARKS ON UNPAINTED STEEL SHALL BE IMPRESSED INTO THE MEMBER (WITH A LOW-STRESS STAMP) IN A NON-STRESSED OR LOW STRESSED AREA OF THE MEMBER.
- 4). <u>TIGHT FIT (WELDED ENDS ONLY).</u> 50% OF THE PROJECTED BEARING AREA SHALL BE IN CONTACT WITHIN 0.5mm (0.02") WITH A PERMISSIBLE VARIATION OF 1.6mm (1/16") FOR THE REMAINING 50% OF THE PROJECTED AREA.
- 5), <u>GRIND TO BEAR.</u> 75% OF THE PROJECTED AREA SHALL BE IN CONTACT WITHIN 0.25mm (0.01") WITH A PERMISSIBLE VARIATION OF 0.8mm (1/32") FOR THE PROJECTED AREA.
- 6). <u>MILL TO BEAR.</u> 100% OF THE PROJECTED AREA SHALL BE IN FULL CONTACT.

<u>WELDING</u>

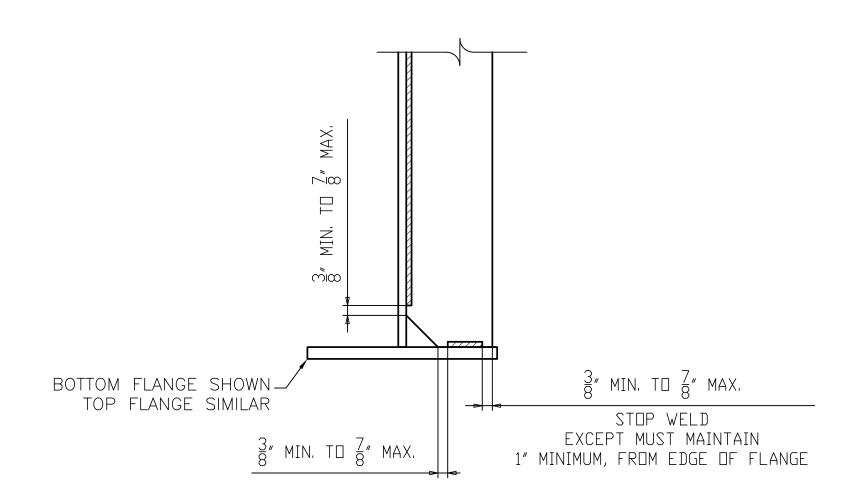
- 1). THE CONFIGURATION OF THE WELD JOINTS AND ALL WELDING PROCEDURES SHALL BE IN ACCORDANCE WITH AASHTO/AWS D1.5-02 BRIDGE WELDING CODE AND WITH SPECIFICATIONS SHOWN BESIDE, ALL WELDING WILL BE DETAILED TO PRE-QUALIFIED JOINTS, UNLESS PROHIBITED BY THE DESIGNER.
- 2). WELDING OF MAIN LOAD CARRYING MEMBERS AND ATTACHMENTS SHALL BE PERFORMED USING THE AUTOMATIC SUBMERGE ARC & SHIELDED METAL ARC PROCESS, ALL WELDS ARE CONTINUOUS U.N.
- 3). NON-DESTRUCTIVE TESTING OF WELDS SHALL BE IN ACCORDANCE WITH THE REFERENCED SPECIFICATIONS.

FIELD CONNECTIONS

- 1). ALL FIELD CONNECTIONS SHALL BE MADE WITH 7/8" DIAMETER HIGH STRENGTH BOLTS AASHTO M164 (ASTM A325) TYPE 3, IN 15/16" DIAMETER HOLES UNLESS OTHERWISE NOTED. INSTALLED PER 506,19(c) AND SPECIAL PROVISIONS.
- 2). BOLTS SHALL HAVE HEAVY HEX. NUT, HEX. HEAD AND ONE DTI'S/LOAD INDICATOR FLAT WASHER EACH (WASHER TO BE PLACED UNDER TURNED ELEMENT).
- 3). PIECE MARKS WILL BE LOCATED AS SHOWN ON ERECTION DRAWING.
- 4). BOLTS INSTALLED WITH THE STEM VERTICAL SHALL HAVE HEADS UP. BOLTS INSTALLED WITH THE STEM HORIZONTAL SHALL HAVE HEADS TOWARDS THE WEATHER UNLESS CLEARANCE RESTRICTIONS DICTATE OTHERWISE.

<u>CLEANING:</u>

1). ALL STEEL THAT WILL REMAIN UNPAINTED SHALL BE BLAST CLEANED AS PER SSPC SP-10 PER SPEC. 506.14(a).

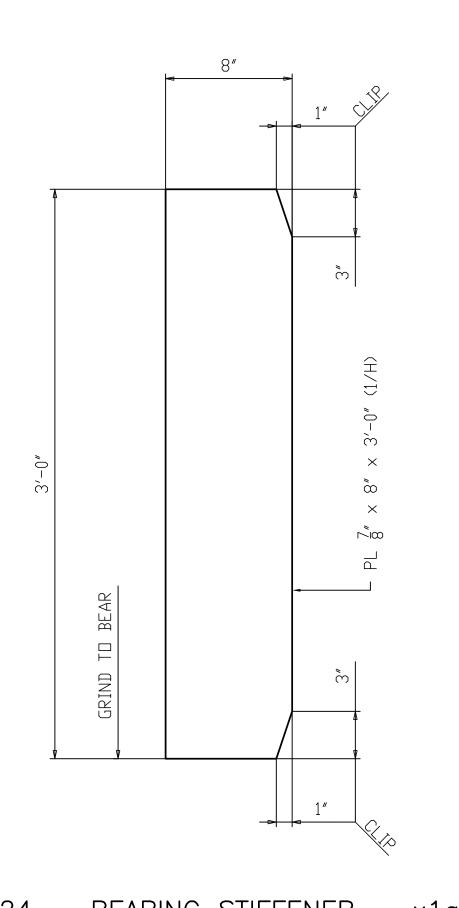


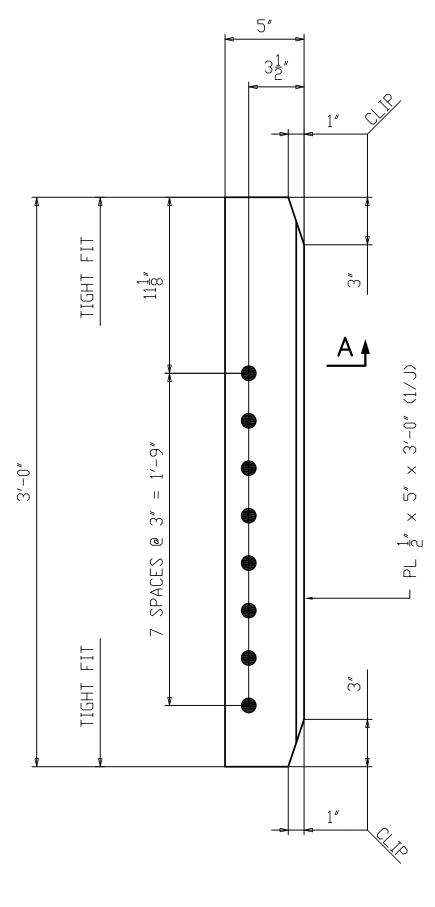
DETAIL "WS1" STIFF. WELD TERMINATION

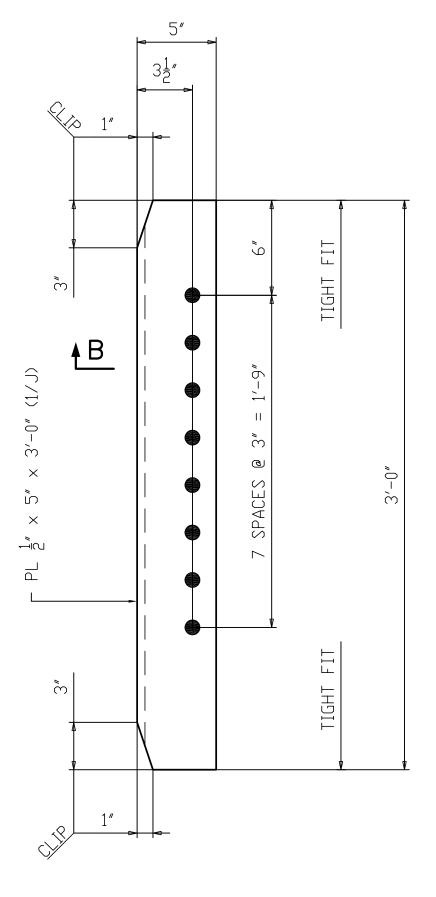
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REV.	DATE		REMARKS		DWN	CHK	APVL	SHOP	
MATERIAL: SURFACE PREP. & PAINT: HOLES: AS NOTED							SHOP BOLTS: AS NOTED		
DESC	DESCRIPTION: GENERAL NOTES								
	CASCO BAY STEEL STRUCTURES, INC.								
CAS	CO BAY ST	EEL	1 WALLACE AVE. SOUTH PORTLAND, ME					dib.	
STRU	CTURE: I			WN: SL	DATE: 04/16				
		DHAM	СНК	D:	DATE:				
		STAT TRAI		f	RA	04/22			
LOCATION: MARLBORO / WINDHAM, VT JOB NO. DWG NO.								DWG NO.	

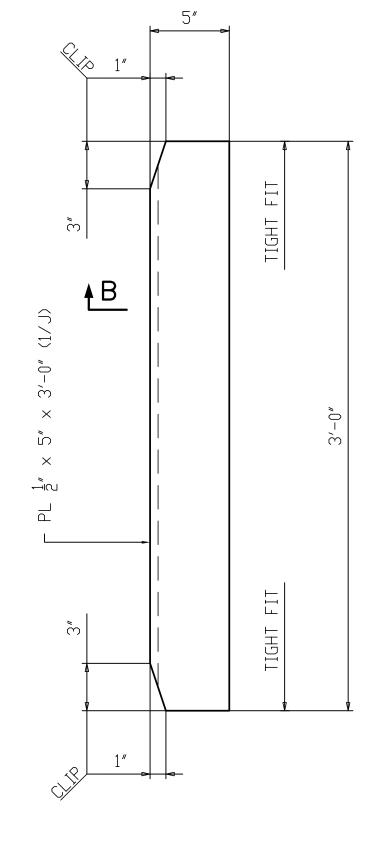
PROJ NO. BRF 010-1(43)

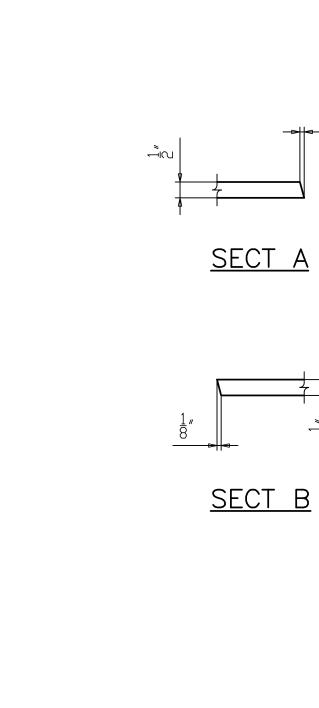
CUSTOMER: RENAUD BROS., INC.

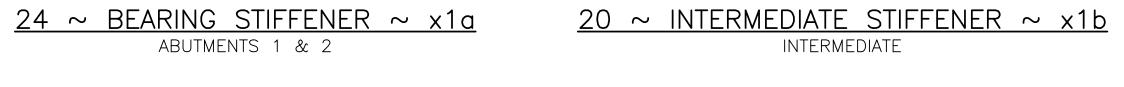






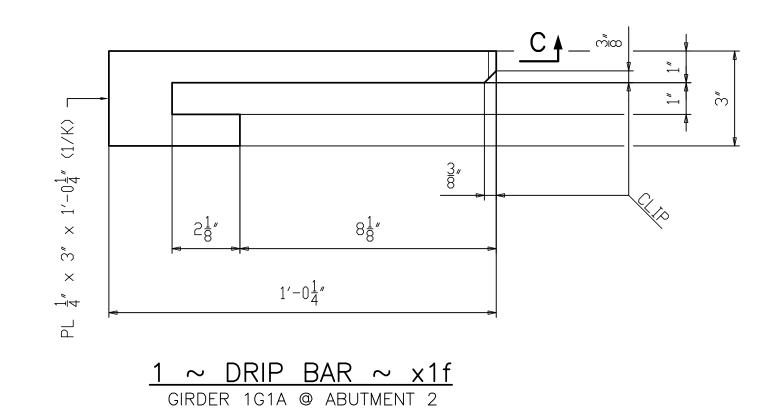


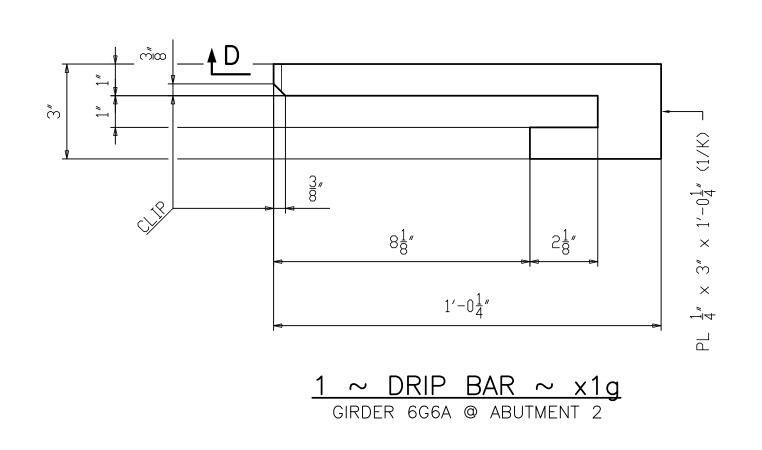


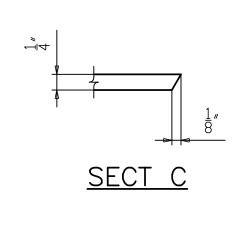


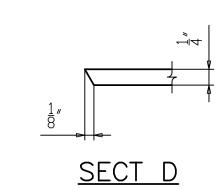
16 ~ INTERMEDIATE STIFFENER ~ x1c
INTERMEDIATE











NOTES:

1. FOR GENERAL NOTES SEE SHEET GN1.

0								
REV.	DATE		REMARKS		DWN	CHk	(APVL	SHOP
MATERIAL: A709-50W U.N.		N.	SURFACE PREP. & PAINT: SEE DWG. GN1	HOLES: 15// ø	U.N.	5	SHOP BOL	
D.E.O.O.	DIDTION		CIODED OTANDADA	DETAILO				

DESCRIPTION: GIRDER STANDARD DETAILS

	CASCO	BAY	STEEL	STRU	JCTU	RES,	INC.	
AY STEEL	1 WALLACE	AVE.	Р	HONE ((207)	780-6722	2	
	SOLITH POR	OINV ITS	MF 04106	EVA ((207) ·	780_6726		5

SOUTH PORTLAND, ME 04106 FAX. (207)	/80-6/26	
		TENCA 1379
STRUCTURE: PRINCIPAL ARTERIAL OVER	DRAWN:	DATE:
WHETSTONE BROOK STATE ROUTE VT9, BRIDGE NO. 48	SL	04/17
TOWN OF MARLBORO/COUNTY OF WINDHAM	CHKD:	DATE:
STATE OF VERMONT AGENCY OF TRANSPORTATION	RA	04/23
LOCATION: MARLBORO / WINDHAM, VT	JOB NO.	DWG NO.
PROJ NO. BRF 010-1(43)	570-2	X1
CUSTOMER: RENAUD BROS., INC.] 3/0-2	REV.
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